CLAIMS

1. An image forming apparatus, which comprises: conveying means, for conveying a sheet; sheet suction means, for holding a sheet on a platen through suction; a print head for, based on image data, moving in a direction perpendicular to a sheet conveying direction and performing printing on the sheet; and control means, for controlling the conveying means and which alternately repeats, for each path, a sheet conveying operation and a printing operation a required number of times to form an image on the sheet, characterized in that:

5

10

20

when the sheet is to be conveyed in a specific direction a predetermined feeding distance (Lx) during the conveying operation for each path, the control means permits the conveying means to first convey the sheet a predetermined distance (L1) in the specific direction (+X direction), then to convey the sheet a direction (-X), the opposite of the specific direction (+X), a distance (L: L = L1 + Δ L1) that is obtained by adding a short distance (Δ L1) to the predetermined distance (L1), and to further convey the sheet in the specific direction (+X) a distance (Lx + Δ L1).

- 2. An image forming apparatus according to claim 1, characterized in that:
- the control means permits the conveying means to repeat, multiple (n) times, during the conveying operation for one path, the conveying of a sheet the predetermined

distance (L1) in the specific direction (+X direction) and reverse feeding of the sheet in the direction (-X), opposite the specific direction (+X), a distance (L: L = L1 + Δ L1), which is obtained by adding a short distance (Δ L1) to the predetermined distance (L1); and to finally convey the sheet in the specific direction (+X) a distance (Lx + n \times Δ L1).

- 3. An image forming apparatus according to claim 2 or 3, characterized in that the sheet feeding distance (Lx), during the conveying operation, has relationships L1 = Lx \times (0.5 to 1) and Δ L1 = L1 \times (0.05 to 0.3).
- 4. An image forming apparatus according to one of claims 1 to 3, characterized in that a heater is provided for the paten or a paper guide.
- 5. An image forming apparatus according to one of claims 1 to 4, characterized in that ink discharged from a print head is solvent ink.

10